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System-level power optimization: techniques and tools

Luca Benini, Giovanni de Michell

April 2000 Transactions on Design Automation of Electronic Systems (TODAES)

Publisher: ACM Request Permissions Full text available: (385.22 KB)

Additional Information: full citation, abstract, references, cited to

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 588, Citation Count: 77

This tutorial surveys design methods for energy-efficient system-level design. We con sytems consisting of a hardware platform and software layers. We consider the three constituents of hardware that consume energy, namely computation, ...

2 Fusion-based register allocation

Guei-Yuan Lueh, Thomas Gross, Ali-Reza Adi-Tabatabai

May 2000 Transactions on Programming Languages and Systems (TOPLAS), Vol

Publisher: ACM Pequest Permissions

Full text available: Tale (475.45 KB)

Additional Information: full citation, abstract, references, cited b

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 67, Citation Count: 6

The register allocation phase of a compiler maps live ranges of a program to register: more candidates than there are physical registers, the register allocator must spill a l home location is in memory) or split a live range ...

Keywords: performance evaluation, register allocation

Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo July 2001 Transactions on Programming Languages and Systems (TOPLAS), Vol.

Publisher: ACM Pequest Permissions

Full text available: Pdf (1.95 MB) Additional Information: full citation, abstract, references, cited t

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 225, Citation Count: 13

Since the early days of logic programming, researchers in the field realized the poten exploitation of parallelism present in the execution of logic programs. Their high-leve presence of nondeterminism, and their referential transparency, ...

Keywords: Automatic parallelization, constraint programming, logic programming, p prolog

Global array reference allocation

🗽 Guido Araujo, Guilherme Ottoni, Marcelo Silva Cintra

April 2002 Transactions on Design Automation of Electronic Systems (TODAES)

Publisher: ACM W Request Permissions

Full text available: Pdf (354.75 KB) Additional Information: full citation, abstract, references, cited to

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 32, Citation Count: 1

Embedded systems executing specialized programs have been increasingly responsib share of the computer systems manufactured every year. This trend has increased th processors that can guarantee high-performance under stringent ...

Keywords: Address registers, DSPs, auto-increment addressing modes, register allo

5 Improving readability of contextualized text explanations

Wallace Chigona, Thomas Strothotte

February 2003 **AFRI GRAPH '03:** Proceedings of the 2nd international conference on Congraphics, virtual Reality, visualisation and interaction in Africa

Publisher: ACM

Full text available: 127 (377.25 KB) Additional Information: full obtailion, abstract, references, index

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 34, Citation Count: 0

Dual-Use of Image Space (duis) is an interactive technique for presenting text corres images within the image space. From a technical point of view, the pixels in the imag used both as text which can be read as well ...

Keywords: distortion, dual-use of image space, monotone polygons, multi-column p readability, text layout

6 Parametric shape analysis via 3-valued logic

Mooly Sagiv, Thomas Reps, Reinhard Wilhelm

May 2002 Transactions on Programming Languages and Systems (TOPLAS), vol

Publisher: ACM Pequest Permissions

Full text available: Pdf (1.10 MB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 123, Citation Count: 48

Shape analysis concerns the problem of determining "shape invariants" for programs destructive updating on dynamically allocated storage. This article presents a parameter shape analysis that can be instantiated in different \dots

Keywords: 3-valued logic, Abstract interpretation, alias analysis, constraint solving, updating, pointer analysis, shape analysis, static analysis

7 Cg: a system for programming graphics hardware in a C-like language

William R. Mark, R. Steven Glanville, Kurt Akeley, Mark J. Kilgard

July 2003 SIGGRAPH '03: SIGGRAPH 2003 Papers

Publisher: ACM Pequest Permissions

Full text available: Mov (24:34 MIN), Pdf (2.57 MB) Additional Information: full citation, abstract, refe

Bibliometrics: Downloads (6 Weeks): 56, Downloads (12 Months): 353, Citation Count: 77

The latest real-time graphics architectures include programmable floating-point verte processors, with support for data-dependent control flow in the vertex processor. We programming language and a supporting system that are designed ...

Also published in:

July 2003 Transactions on Graphics (TOG) Volume 22 Issue 3

8 Formalizing the safety of Java, the Java virtual machine, and Java card

🏔 Pieter H. Hartel, Luc Moreau

December 2001 Computing Surveys (CSUR), Volume 33 Issue 4

Publisher: ACM Pequest Permissions

Full text available: Pdf (442.86 KB)

Additional Information: full citation, abstract, references, cited to

Bibliometrics: Downloads (6 Weeks): 65, Downloads (12 Months): 486, Citation Count: 13

We review the existing literature on Java safety, emphasizing formal approaches, and Java safety on small footprint devices such as smartcards. The conclusion is that alth good work has been done, a more concerted effort is ...

Keywords: Common criteria, programming

Migrating sockets—end system support for networking with quality of service guadavid K. Y. Yau, Simon S. Lam

December 1998 IEEE/ ACM Transactions on Networking (TON), Volume 6 Issue 6

Publisher: IEEE Press

Full text available: Pdf (369.10 KB)

Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 44, Citation Count: 1

Keywords: CPU scheduling, bandwidth scheduling, packet demultiplexing, quality of guarantees, user level protocol

10 Dynamo: a transparent dynamic optimization system

🚵 Vasanth Bala, Evelyn Duesterwald, Sanjeev Banerjia

August 2000 PLDI '00: Proceedings of the ACM SIGPLAN 2000 conference on Programm design and implementation

Publisher: ACM Pequest Permissions

Full text available: Additional Information: full citation, abstract, references, cited t

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 286, Citation Count: 176

We describe the design and implementation of Dynamo, a software dynamic optimizathat is capable of transparently improving the performance of a native instruction strexecutes on the processor. The input native instruction stream ...

Also published in:

May 2000 SIGPLAN Notices Volume 35 Issue 5

11 Java bytecode as a typed term calculus

Tamayuki Higuchi, Atsushi Ohori

October 2002 **PPDP '02:** Proceedings of the 4th ACM SIGPLAN international conference cand practice of declarative programming

Publisher: ACM Request Permissions

Full text available: Pdf (214.36 KB) Additional Information: full citation, abstract, references, cited to

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 17, Citation Count: 5

We propose a type system for the Java bytecode language, prove the type soundness a type inference algorithm. In contrast to the existing proposals, our type system yie term calculus similar to type systems of lambda calculi. ...

Keywords: Java bytecode, bytecode verifier, type inference, type system

12 Secure program partitioning

Steve Zdancewic, Lantian Zheng, Nathaniel Nystrom, Andrew C. Myers
August 2002 Transactions on Computer Systems (TOCS), Volume 20 Issue 3

Publisher: ACM Pequest Permissions

Full text available: Pof (497.12 KB) Additional Information: full citation, abstract, references, cited t

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 100, Citation Count: 11

This paper presents secure program partitioning, a language-based technique for pro confidential data during computation in distributed systems containing mutually untru Confidentiality and integrity policies can be expressed by annotating ...

Keywords: Confidentiality, declassification, distributed systems, downgrading, integ distrust, secrecy, security policies, type systems

13 Using model dataflow graphs to reduce the storage requirements of constraints Bradley T. Vander Zanden, Richard Halterman

September 2001 Transactions on Computer-Human Interaction (TOCHI), Volume 8 Is

Publisher: ACM Request Permissions

Full text available: Tale (1.28 MB) Additional Information: full citation, abstract, references, index

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 28, Citation Count: 0

Dataflow constraints allow programmers to easily specify relationships among applica a natural, declarative manner. Most constraint solvers represent these dataflow relati directed edges in a dataflow graph. Unfortunately, dataflow ...

Keywords: Class-instance model, dataflow constraints, graphical interfaces, languag implementation, programming environments, prototype-instance model, storage opti

14 The apprentice challenge

🜦 J. Strother Moore, George Porter

May 2002 Transactions on Programming Languages and Systems (TOPLAS), vol

Publisher: ACM Request Permissions

Full text available: Pdf (212.09 KB) Additional Information: full citation, abstract, references, cited b

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 48, Citation Count: 7

We describe a mechanically checked proof of a property of a small system of Java pro involving an unbounded number of threads and synchronization, via monitors. We ad of the javac compiler as the semantics and verify the system at ...

Keywords: Java, Java Virtual Machine, mutual exclusion, operational semantics, par distributed computation, theorem proving

15 A region-based compilation technique for a Java just-in-time compiler

Toshio Suganuma, Toshiaki Yasue, Toshio Nakatani

June 2003 PLDI '03: Proceedings of the ACM SIGPLAN 2003 conference on Programmir design and implementation

Publisher: ACM * Request Permissions

Full text available: Told (158.62 KB) Additional Information: full citation, abstract, references, cited t

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 80, Citation Count: 10

Method inlining and data flow analysis are two major optimization components for eff transformations, however they often suffer from the existence of rarely or never execcontained in the target method. One major problem lies in ...

Keywords: dynamic compilers, on-stack replacement, partial inlining, region-based

Also published in:

May 2003 SIGPLAN Notices Volume 38 Issue 5

16 Tail recursion elimination in deductive databases

Kenneth A. Ross

June 1996 Transactions on Database Systems (TODS), Volume 21 Issue 2

Publisher: ACM Request Permissions

Full text available: Pdf (346.78 KB) Additional Information: full citation, abstract, references, index

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 23, Citation Count: 0

We consider an optimization technique for deductive and relational databases. The opticchnique is an extension of the magic templates rewriting, and it can improve the pequery evaluation by not materializing the extension of intermediate \dots

Keywords: deductive databases, magic sets, query optimization, tail recursion

17 Optimization of mesh locality for transparent vertex caching

Hugues Hoppe

July 1999 SIGGRAPH '99: Proceedings of the 26th annual conference on Computer gr

interactive techniques

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: 12.46 MB) Additional Information: full citation, references, cited by, index t

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 54, Citation Count: 31

Keywords: geometry compression, triangle strips

18 Partial redundancy elimination in SSA form

🙈 Robert Kennedy, Sun Chan, Shin-Ming Llu, Raymond Lo, Peng Tu, Fred Chow

May 1999 Transactions on Programming Languages and Systems (TOPLAS), vol

Publisher: ACM Request Permissions

Full text available: Pdf (704.71 KB)

Additional Information: full citation, abstract, references, cited to

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 169, Citation Count: 14

The SSAPRE algorithm for performing partial redundancy elimination based entirely o presented. The algorithm is formulated based on a new conceptual framework, the faredundancy graph, for analyzing redundancy, and representes the ...

Keywords: code motion, common subexpressions, data flow analysis, partial redunc single assignment form

19 Ensuring code safety without runtime checks for real-time control systems

Sumant Kowshik, Dinakar Dhurjati, Vikram Adve

October 2002 CASES '02: Proceedings of the 2002 international conference on Compilers and synthesis for embedded systems

Publisher: ACM

Full text available: Pdf (127.10 KB)

Additional Information: full citation, abstract, references, cited t

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 58, Citation Count: 8

This paper considers the problem of providing safe programming support and enablin software upgrades for control software in real-time control systems. In such systems techniques for ensuring code safety are greatly preferable ...

Keywords: compiler, control, programming language, real-time, security, static ana

20 Efficient optimistic parallel simulations using reverse computation

Christopher D. Carothers, Kalyan S. Perumalla, Richard M. Fujimoto

July 1999 Transactions on Modeling and Computer Simulation (TOMACS), Volume

Publisher: ACM Pequest Permissions

Additional Information: full citation, abstract, references, cited b Full text available: (188.81 KB) review

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 55, Citation Count: 25

In optimistic parallel simulations, state-saving techniques have traditionally been use rollback. In this article, we propose reverse computation as an alternative approach, its execution performance against that ...

Keywords: parallel discrete event simulation, reverse computation, rollback, state-s

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